



2684

Sarraf 20-12

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Applicant(s): Sarraf et al.
Case: 20-12
Serial No.: 09/396,055
Filing Date: September 15, 1999
Group: 2684
Examiner: Charles Chiang Chow

I hereby certify that this paper is being deposited on this date with the U.S. Postal Service as first class mail addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

Signature *Line Shalt* Date: April 28, 2003

Title: Method and Apparatus for Frequency Offset Estimation and Interleaver Synchronization Using Periodic Signature Sequences

AMENDMENT TRANSMITTAL

RECEIVED

Assistant Commissioner for Patents
Washington, D.C. 20231

MAY 06 2003

Technology Center 2600

Sir:

Submitted herewith is an Amendment and Response to Office Action relating to the above-identified patent application. There is no additional claim fee due in connection with the Amendment. In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Deposit Account No. 50-0762** as required to correct the error. A duplicate copy of this letter is enclosed.

Respectfully,

Kevin M. Mason

Date: April 28, 2003

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Sarraf 20-12 *cc*

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Signature: *Linda Shalton* Date: April 28, 2003

Title: Method and Apparatus for Frequency Offset Estimation and Interleaver Synchronization Using Periodic Signature Sequences

AMENDMENT AND RESPONSE TO OFFICE ACTION

Box Non-Fee Amendment
Assistant Commissioner for Patents
Washington, D.C. 20231

RECEIVED

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SIR:

In response to the outstanding Office Action, dated February 13, 2003, please amend the above-identified patent application as follows. A version of the amendments that have been marked to show all changes is included as an Appendix.

IN THE CLAIMS:

Please amend the claims as indicated below:

1. (Amended) A method for estimating the frequency offset in an OFDM communication system, comprising the steps of:
allocating certain locations in an OFDM frame to a signature sequence;
transmitting said signature sequence with data to a receiver, wherein said data and said signature sequence are encoded using a differential encoding performed in frequency; and